

UNC Modification		At what stage is this document in the process?
<h1>UNC 0636:</h1> <h2>Updating the parameters for the NTS Optional Commodity Charge</h2>		<div style="display: flex; flex-direction: column; gap: 5px;"> <div style="border: 1px solid #008000; background-color: #008000; color: white; padding: 5px; display: flex; justify-content: space-between; align-items: center;">01 Modification</div> <div style="border: 1px solid #008000; background-color: #e0f0e0; padding: 5px; display: flex; justify-content: space-between; align-items: center;">02 Workgroup Report</div> <div style="border: 1px solid #008000; background-color: #e0f0e0; padding: 5px; display: flex; justify-content: space-between; align-items: center;">03 Draft Modification Report</div> <div style="border: 1px solid #008000; background-color: #e0f0e0; padding: 5px; display: flex; justify-content: space-between; align-items: center;">04 Final Modification Report</div> </div>
<p>Purpose of Modification:</p> <p>To update the parameters used in the derivation of the Optional Commodity Charge tariff in order to reduce the current level of effective cross subsidy by gas customers who cannot avail of the Optional Commodity Charge.</p>		
	<p>The Proposer recommends that this modification should be:</p> <ul style="list-style-type: none"> considered a material change and not subject to self-governance assessed by a Workgroup <p>This modification will be presented by the Proposer to the Panel on 19 October 2017. The Panel will consider the Proposer's recommendation and determine the appropriate route.</p>	
	<p>High Impact:</p> <p>Users opting for the Optional Commodity Charge could expect an increase in the tariff. Note that it is expected that the tariff would still be available as an option to avoid inefficient bypass of the NTS.</p> <p>The Standard Commodity tariff would be consequentially reduced.</p>	
	<p>Medium Impact:</p>	
	<p>Low Impact:</p>	

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10	Recommendations	10		Vermilion Energy Ireland Limited	Delet
					Delet
				hkreuze@vermilionenergy.com	Delet
					
				telephone	
				Transporter:	
				National Grid NTS	
				Systems Provider:	
				Xoserve	
					
				commercial.enquiries@xoserve.com	
				Other:	
				Debra Hawkin	
					
				debra@tpasolutions.co.uk	
					
				07968 340 721	
Timetable					
The Proposer recommends the following timetable:					
Initial consideration by Workgroup	25 October 2017				
Workgroup Report presented to Panel	16 November 2017				
Draft Modification Report issued for consultation	16 November 2017				
Consultation Close-out for representations	08 December 2017				
Final Modification Report available for Panel	19 December 2017				
Modification Panel decision	21 December 2017				

1 Summary

What

The NTS Optional Commodity Charge (OCC) was introduced in 1998 and the tariff has not been updated for nearly 20 years. Therefore, it is proposed that the parameters within the NTS OCC formula need to be updated to be more reflective of the current costs and pipeline utilisation.

Why

The OCC was introduced in 1998 with the express intention of providing a mitigating option for shippers seeking short distance transportation, and was justified on the basis of avoiding inefficient bypass of the NTS. Given that the tariff has not been updated in nearly 20 years whilst standard commodity charges have risen significantly over the same period, the OCC has become a very attractive option even for exit points that are increasingly distant from an associated entry point.

National Grid NTS have advised the NTSCMF1 that Users opting to avail of the OCC during the current Gas Year (17/18) will pay an estimated £48.5 million in optional commodity charges but, in doing so, will avoid paying nearly £195 million in standard commodity charges. This represents a potential cross-subsidy to those OCC Users of about £146 million per annum at the expense of those sites which are unable to benefit from the option of the OCC.

How

It is therefore proposed to give effect to this modification by way of two changes to the UNC TPD, Section Y paragraph 3.5 “NTS Optional Commodity Rate”.

1. Replace the current formula with that proposed in 2015 as Option 2 by National Grid in its discussion document NTS GCD11².
2. Adjust the assumed capacity of the alternative by-pass pipeline against which the OCC charges are calculated. Specifically replace the MNEPOR in the current formula with the average daily flow at the exit point from the previous Gas Year divided by 75%.

It is proposed that the changes arising from this code modification be implemented by 01 April 2018 thereby saving up to £220³ million in cross subsidies relative to the base case of waiting until October 2019⁴.

¹ NTSCMF 26 September 2017

² <http://www2.nationalgrid.com/UK/Industry-information/System-charges/Gas-transmission/Charging-methodology/Gas-Charging-Discussion-papers/>

³ This value assumes an equal load profile throughout the Gas Year.

⁴ It is anticipated that Modification Proposal 0621 will propose changes to the Optional Commodity tariff for implementation from October 2019 for compliance with the EU Tariff Code.

2 Governance

Justification for Authority Direction

National Grid NTS have advised the NTSCMF⁵ that Users opting to avail of the OCC during the current Gas Year (17/18) will pay an estimated £48.5 million in optional commodity charges but, in doing so, will avoid paying nearly £195 million in standard commodity charges. This represents a potential cross-subsidy to those OCC Users of about £146 million per annum at the expense of those sites which are unable to benefit from the option of the OCC. It is proposed that the changes arising from this code modification be implemented by 1 April 2018 thereby saving up to £220⁶ million in cross subsidies relative to the base case of waiting until October 2019⁷.

This Modification should be considered likely to have a material on competition in, or commercial activities related to, the shipping, transportation or supply of gas. It therefore should be sent to the Authority for decision.

Requested Next Steps

This modification should:

- be considered a material change and not subject to self-governance; and
- be assessed by a Workgroup.

3 Why Change?

The parameters within the NTS Optional Commodity Charge (OCC) formula need to be updated to be more reflective of the current costs and pipeline utilisation.

The OCC is available as an alternative (instead of the Standard Commodity Charges) to Users nominating a “point to point” path for transportation from an NTS entry point to an NTS offtake point. If a User elects for the OCC, all NTS Entry and Exit (SO & TO) Commodity Charges are avoided. The NTS OCC is derived from the estimated cost of laying and operating a dedicated pipeline of NTS specification. This is defined in UNC TPD Section Y. The OCC was introduced in 1998 with the express intention of providing a mitigating option for shippers seeking short distance transportation, and was justified on the basis of avoiding inefficient bypass of the NTS. Given that the tariff has not been updated in nearly 20 years whilst standard commodity charges have risen significantly over the same period, the OCC has become a very attractive option even for exit points that are increasingly distant from an associated entry point. The parameters on which the OCC tariff is predicated are no longer considered to be appropriate as

⁵ NTSCMF 26 September 2017

⁶ This value assumes an equal load profile throughout the Gas Year.

⁷ It is anticipated that Modification 0621 will propose changes to the Optional Commodity tariff for implementation from October 2019 for compliance with the EU Tariff Code.

1. The formula used to calculate the current Optional Commodity rates uses the costs of building and operating a dedicated pipeline at the time of introduction in 1998⁸ and has not been amended since. National Grid sought to update the cost inputs in 2015. While Code Modification 0563S facilitated the inclusion of the formula into the UNC TPD, Section Y from the NTS Transportation Statement, the update to the original OCC formula is still outstanding as National Grid decided to wait until there was more clarity on the EU Tariff Code rather than any suggestion that it was inappropriate to update the charging formula.
2. Load factors at exit points are very low in relation to the design capacity assumption embedded within the OCC charge – nowhere near the 75% assumption, meaning that the OCC is too low. National Grid NTS advised at a recent NTSCMF (17 July) that the average load factor of short-hauled gas has declined to about 20% during the 16/17 Gas Year.

National Grid NTS have advised the NTSCMF⁹ that Users opting to avail of the OCC during the current Gas Year (17/18) will pay an estimated £48.5 million in optional commodity charges but, in doing so, will avoid paying nearly £195 million in standard commodity charges. This represents a potential cross-subsidy to those OCC Users of about £146 million per annum at the expense of those sites which are unable to benefit from the option of the OCC.

1. Users opting for the OCC during the current Gas Year will pay an estimated £48.5 million in optional commodity charges but, in doing so, will avoid paying nearly £195 million in standard commodity charges. This represents a potential cross-subsidy to those OCC Users of about £146 million per annum at the expense of those sites unable to benefit from the option of the OCC.
2. The proposal requires a change to the charging methodology contained within Section Y of the UNC and Section B3.12.10 (b).
3. If the change is not made there will be up to £220 million in cross subsidies by Users unable to benefit from the OCC (largely within the Distribution Networks) in the interim period between April 2018 and October 2019 before Modification 0621 could be expected to address the issue.

The proposer is aware that National Grid is planning to address this cross-subsidisation from October 2019 as part of Modification 0621 but is concerned that this will not address the on-going cross-subsidisation in the interim. The proposer doesn't wish to burden National Grid unduly in the administration of an amended OCC and also appreciates the need to develop a fairly simple solution that can be implemented relatively quickly and which will materially address the cross-subsidisation in the period to October 2019.

⁸ Using 1997 construction and operational costs, annuitized over a ten year project life using a 10% project discount rate.

⁹ NTSCMF 26 September 2017

4 Code Specific Matters

Reference Documents

The Statement of Gas Transmission Transportation Charges

<https://www.gasgovernance.co.uk/sites/default/files/ggf/book/2017-09/Transportation%20statement%20October%202017%20.pdf>

Knowledge/Skills

Understanding of the NTS charging methodology in respect of the Optional Commodity Charge.

5 Solution

The proposal requires a change to the charging methodology contained within Section Y (3.5 NTS Optional Commodity Rate) and Section B3.12.10(b) of the UNC.

The parameters of the NTS Optional Commodity charge formula are derived from flow rates, pipeline distances and underlying costs. The current formula is as follows:

$$p/kWh = 1203 \times M^{-0.834} \times D + 363 \times M^{-0.654}$$

Where:

D is the direct distance of the site or non-National Grid NTS Pipeline to the elected Entry Terminal

M is the Maximum NTS Exit Point Offtake Rate (MNEPOR) at the site, converted into kWh/day

^ means 'to the power of..'

The proposed formula is as follows:

$$p/kWh = 1247 \times M^{-0.78} \times D + 1422 \times M^{-0.708}$$

Where:

D is the direct distance of the site or non-National Grid NTS Pipeline to the elected Entry Terminal

M is the average daily flow in kWh/day at the exit point from the previous Gas Year divided by 75%.

^ means 'to the power of..'

[For the avoidance of doubt:](#)

[\(i\) where the site is new and hence there is no flow history, retain the existing formula for M of 24 times the Maximum NTS Exit Point Offtake Rate](#)

[\(ii\) for an NTS Exit Point in respect of a pipeline interconnector having no physical exit capability, M is the average daily flow in kWh/day from the previous Gas Year divided by 75% to the NTS at the System Entry Point associated with such Connected Delivery Facility.](#)

- (iii) The update to the parameters would be effective for all sites availing of the OCC from the time of implementation of the Mod and no further updates are envisaged prior to October 2019 when Mod 0621 is expected to be effected.
- (iv) At the time of calculation of the charge rates (which will be subject to the 2 months' notice of charges), the average daily flow will take the latest gas year for which [fully reconciled] data is available – For example implementation anytime between 1 April and 1 October 18 will use data from the Gas Year October 16 to September 17.
- (v) The OCC charge rate for each relevant exit point will be updated at the time of implementation and will not be further updated. It is anticipated that Mod 0621 will update the OCC methodology and associated charge rates in the future.

6 Impacts & Other Considerations

Does this modification impact a Significant Code Review (SCR) or other significant industry change projects, if so, how?

There is no impact on an SCR. There is no impact on the current charging review that is due for implementation in 2019 for compliance with the EU Tariff Code.

Consumer Impacts

If implemented, the modification will reduce an effective current cross-subsidy within the current charging methodology.

Cross Code Impacts

There is no impact expected.

EU Code Impacts

None – this change is for the interim period until the charging review is implemented in 2019 for compliance with the EU Tariff Network Code. The proposer anticipates that the wider charging review will include a more comprehensive update of the OCC.

Central Systems Impacts

No changes to systems are anticipated as the charge rate is determined from the average daily gas flow in the previous Gas Year and the charge rate is then input to the UK Link billing system.

7 Relevant Objectives

Impact of the modification on the Relevant Objectives:

Relevant Objective	Identified impact
a) Efficient and economic operation of the pipe-line system.	None

b) Coordinated, efficient and economic operation of (i) the combined pipe-line system, and/ or (ii) the pipe-line system of one or more other relevant gas transporters.	None
c) Efficient discharge of the licensee's obligations.	None
d) Securing of effective competition: (i) between relevant shippers; (ii) between relevant suppliers; and/or (iii) between DN operators (who have entered into transportation arrangements with other relevant gas transporters) and relevant shippers.	None
e) Provision of reasonable economic incentives for relevant suppliers to secure that the domestic customer supply security standards... are satisfied as respects the availability of gas to their domestic customers.	None
f) Promotion of efficiency in the implementation and administration of the Code.	None
g) Compliance with the Regulation and any relevant legally binding decisions of the European Commission and/or the Agency for the Co-operation of Energy Regulators.	None
Impact of the modification on the Relevant Charging Methodology Objectives:	
Relevant Objective	Identified impact
a) Save in so far as paragraphs (aa) or (d) apply, that compliance with the charging methodology results in charges which reflect the costs incurred by the licensee in its transportation business;	Positive
aa) That, in so far as prices in respect of transportation arrangements are established by auction, either: (i) no reserve price is applied, or (ii) that reserve price is set at a level - (I) best calculated to promote efficiency and avoid undue preference in the supply of transportation services; and (II) best calculated to promote competition between gas suppliers and between gas shippers;	None
b) That, so far as is consistent with sub-paragraph (a), the charging methodology properly takes account of developments in the transportation business;	Positive
c) That, so far as is consistent with sub-paragraphs (a) and (b), compliance with the charging methodology facilitates effective competition between gas shippers and between gas suppliers; and	Positive
d) That the charging methodology reflects any alternative arrangements put in place in accordance with a determination made by the Secretary of State under paragraph 2A(a) of Standard Special Condition A27 (Disposal of Assets).	None

e) Compliance with the Regulation and any relevant legally binding decisions of the European Commission and/or the Agency for the Co-operation of Energy Regulators.

None

Adjustments to the OCC rate will reduce the Standard Commodity rates (all other things being equal) and thereby reduce cross subsidies and improve its cost reflectivity – relevant objective (a).

An OCC rate that better reflects the underlying costs of appropriately sized alternative by-pass pipelines will better facilitate effective competition between shippers and suppliers – relevant objective (c) and specifically, help reduce transportation costs to domestic gas customers.

Increasing take-up of the OCC over longer distances has led to a need to review the parameters within the OCC rate calculation – relevant objective (b).

8 Implementation

- The usual date for charging changes is October or April in any year (but changes can be implemented at other dates subject to Ofgem approval). Ideally the proposer would like to implement the modification proposal as soon as possible.
- If decision to implement is received after 31 July 2018, implementation 2 calendar months following the decision to implement.

Should the proposal proceed, National Grid will be asked to give (on a “reasonable endeavours” basis) 150 days’ indicative notice that the OCC rate may change at exit points availing of the OCC and if possible an indicative rate. Similarly, National Grid will be asked to give 2 months’ notice of the actual charges should the Modification be approved.

9 Legal Text

Text Commentary

None

Text [proposer suggested text]

Uniform Network Code – Transportation Principal Document Section B

3.12.10 For the purposes of paragraphs 3.12.9 to 3.12.14 (inclusive), the capacity of the Specified Exit Point shall be the Supply Point Capacity, provided:

- (a) in the case of an LDZ Supply Point the capacity shall be determined in accordance with Section G5.4.1, except for a LDZ Shared Supply Point in which case the capacity shall be determined in accordance with Section G1.7.17;
 - (i) for an LDZ CSEP the capacity shall be determined in accordance with paragraph 4.5.2;
- (b) in the case of an NTS Exit Point the capacity shall be equal to ~~24 times the Maximum NTS Exit Point Offtake Rate~~ the average daily flow (where this average is positive) in kWh/day at the exit point from the previous Gas Year divided by 75%, except:
 - (i) where an NTS Exit Point has no flow history 24 times the Maximum NTS Exit Point Offtake Rate
 - (ii) for an NTS Exit Point in respect of a pipeline interconnector having no physical exit capability which is both a Connected Offtake System and a Connected Delivery Facility, the capacity shall be equal to ~~24 times the amount (where positive) determined as the instantaneous rate (in kWh/Hour) which the Transporter determines to be the maximum instantaneous rate at which it is feasible to deliver gas~~ the average daily flow in kWh/day from the previous Gas Year divided by 75% to the NTS at the System Entry Point associated with such Connected Delivery Facility.

Uniform Network Code – Transportation Principal Document Section Y (3.5 NTS Optional Commodity Rate)

The NTS Optional Commodity Rate (in pence per kWh) is site specific and is calculated by the

following equation:

$$\frac{1203 - 1247}{x} \times [(M)^{-0.834 - 0.78}] \times D + \frac{363 - 1422}{(M)^{-0.654 - 0.708}}$$

Where:

D = the direct distance from the site or non-National Grid NTS pipeline to the Specified Entry Point in km;

M = ~~Maximum NTS Exit Point Offtake Rate (MNEPOR) converted into kWh/day at the site~~ the average daily flow in kWh/day at the NTS Exit Point from the previous Gas Year divided by 75% except:

- (i) where the NTS Exit Point has no flow history, M = 24 times the Maximum NTS Exit Point Offtake Rate
- (ii) for an NTS Exit Point in respect of a pipeline interconnector having no physical exit capability which is both a Connected Offtake System and a Connected Delivery Facility, then M shall be equal to the average daily flow in kWh/day from the previous Gas Year divided by 75% to the NTS at the System Entry Point associated with such Connected Delivery Facility.; and

^ = to the power of

10 Recommendations

Proposer's Recommendation to Panel

Panel is asked to:

- Agree that Authority Direction should apply; and
- Refer this proposal to a Workgroup for assessment.